

**APR 01 2008**

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**FACSIMILE TRANSMISSION COVER SHEET**

DATE: April 1, 2008

TO: **Mail Stop: Amendment**  
U.S. Patent and Trademark Office  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

EXAMINER: Russell Scott Negin, Group Art Unit 1631

RE: U.S. Patent Application No. 10/660,110  
For: SYSTEM AND METHOD FOR EXTENDING DYNAMIC RANGE OF A DETECTOR  
Our Ref.: 5010-406

FROM: Leonard D. Bowersox 

FAC. NO.: (571) 273-8300

**NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 22**

Papers Filed Herewith: Transmittal Form (1 Page)  
Amendment (20 Pages)

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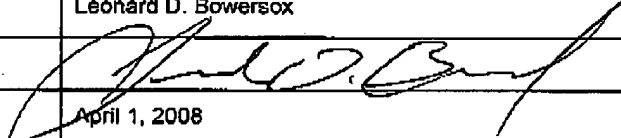
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|  |    |                        |                     |
|--|----|------------------------|---------------------|
| <b>TRANSMITTAL FORM</b><br><i>(to be used for all correspondence after initial filing)</i> |    | Application Number     | 10/660,110          |
|  |    | Filing Date            | September 11, 2003  |
|  |    | First Named Inventor   | Mark F. OLDHAM      |
|  |    | Group Art Unit         | 1631                |
|  |    | Examiner Name          | Russell Scott NEGIN |
| Total Number of Pages in This Submission   | 21 | Attorney Docket Number | 5010-406            |

**ENCLOSURES (check all that apply)**


|  |   |   |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input checked="" type="checkbox"/> Amendment / Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.63 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br><input type="checkbox"/> Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s)<br><input type="checkbox"/> After Allowance Communication to Group | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Acknowledgement Postcard<br><input type="checkbox"/> Other Enclosure(s) (please identify below):<br><br><p>Customer No. 35411</p> |
| Remarks  |   |   |

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

|                         |  |
|-------------------------|--|
| Firm or Individual name | Leonard D. Bowersox  |
| Signature               |  |
| Date                    | April 1, 2008  |

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| Type or printed name | Shirley B. Strain   |
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| Date                 | April 1, 2008   |

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Shirley Strain

Name (Print)

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|                     |   |                     |                   |      |
|---------------------|---|---------------------|-------------------|------|
| Application No.     | : | 10/660,110          | Confirmation No.: | 6842 |
| Applicants          | : | Mark F. OLDHAM      |                   |      |
| Filed               | : | September 11, 2003  |                   |      |
| TC/A.U.             | : | 1631                |                   |      |
| Examiner            | : | Russell Scott NEGIN |                   |      |
| Attorney Docket No. | : | 5010-406            |                   |      |
| Customer No.:       |   | 35411               |                   |      |

**AMENDMENT**

**Mail Stop: Amendment**  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Amendment is in response to the non-final Office Action mailed January 29, 2008, for which the Examiner has set a three-month period for response, thus making a response due on or before April 29, 2008.

*Please amend the above-identified application as follows:*

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 13 of this paper.